

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P393848

Luminaire Tested: **I3-WL-50L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-50L835-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

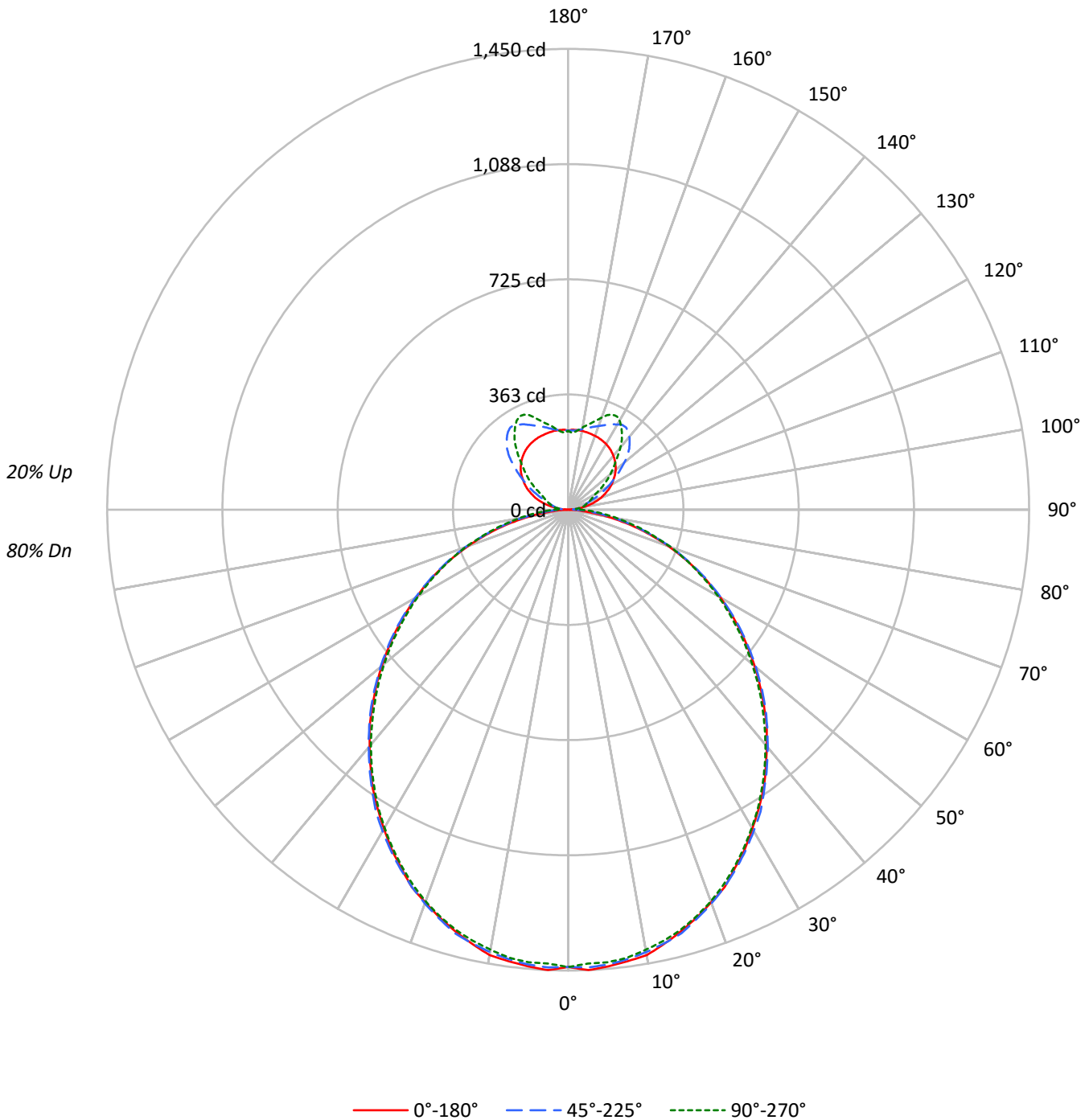
Lumens per Lamp: N/A
Luminaire Lumens: 4767.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	67
2	95	87	80	75	90	83	78	73	77	72	68	70	67	63	65	62	59	56
3	87	77	69	62	82	73	66	61	68	62	57	62	57	53	57	53	50	47
4	79	68	59	53	75	65	57	52	60	54	49	55	50	46	51	47	43	40
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	31	41	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7909	7909	7909
5°	7929	7746	7662
10°	7884	7535	7412
15°	7726	7326	7148
20°	7573	7031	6839
25°	7391	6733	6498
30°	7179	6424	6149
35°	6980	6081	5788
40°	6730	5728	5413
45°	6490	5383	5018
50°	6231	5004	4619
55°	5960	4617	4212
60°	5659	4188	3793
65°	5310	3721	3342
70°	4817	3177	2870
75°	4149	2518	2304
80°	3167	1813	1719
85°	1655	1084	1166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	2.9
10°-20°	385.6	8.1
20°-30°	570.9	12.0
30°-40°	667.3	14.0
40°-50°	670.3	14.1
50°-60°	589.1	12.4
60°-70°	441.4	9.3
70°-80°	251.0	5.3
80°-90°	79.3	1.7
90°-100°	28.6	0.6
100°-110°	69.6	1.5
110°-120°	115.7	2.4
120°-130°	162.3	3.4
130°-140°	187.0	3.9
140°-150°	178.6	3.7
150°-160°	134.3	2.8
160°-170°	76.0	1.6
170°-180°	24.1	0.5
0°-30°	1092.5	22.9
0°-40°	1759.8	36.9
0°-60°	3019.2	63.3
0°-90°	3790.9	79.5
90°-120°	213.8	4.5
90°-150°	741.7	15.6
90°-180°	976.0	20.5
0°-180°	4767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1442	1428	1436	1432	1429	137
15°	1373	1361	1379	1370	1368	387
25°	1243	1239	1248	1243	1238	573
35°	1071	1063	1075	1066	1064	669
45°	870	869	876	867	861	672
55°	660	662	665	656	649	590
65°	446	447	449	446	441	440
75°	226	230	236	244	244	240
85°	39	51	69	85	89	51
90°	1	7	22	33	38	3
95°	21	21	21	23	24	23
105°	82	69	52	55	56	85
115°	134	167	102	83	82	132
125°	176	244	184	147	136	158
135°	209	265	272	225	209	161
145°	231	263	316	303	295	145
155°	244	258	295	325	330	112
165°	250	253	268	279	282	71
175°	252	250	250	250	246	24
180°	248	248	248	248	248	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9
2.5°	1449.9	1447.4	1441.3	1435.2	1434.0	1432.8	1432.8	1431.6	1431.6	1434.0	1441.3
5°	1442.5	1441.3	1435.2	1429.2	1427.9	1427.9	1426.7	1426.7	1426.7	1429.2	1436.5
7.5°	1432.8	1430.4	1424.3	1418.2	1417.0	1417.0	1417.0	1415.8	1417.0	1418.2	1426.7
10°	1423.1	1421.9	1415.8	1408.5	1406.0	1406.0	1404.8	1402.4	1402.4	1404.8	1413.3
12.5°	1398.7	1397.5	1391.4	1386.6	1386.6	1387.8	1387.8	1389.0	1389.0	1391.4	1397.5
15°	1373.2	1371.9	1365.9	1361.0	1361.0	1361.0	1359.8	1359.8	1361.0	1368.3	1379.2
17.5°	1345.2	1343.9	1339.1	1334.2	1334.2	1334.2	1333.0	1333.0	1334.2	1337.9	1348.8
20°	1314.7	1313.5	1308.6	1303.8	1303.8	1303.8	1302.6	1303.8	1303.8	1308.6	1318.4
22.5°	1285.5	1283.1	1277.0	1272.1	1269.7	1269.7	1269.7	1268.5	1270.9	1274.6	1284.3
25°	1242.9	1241.7	1239.3	1235.6	1238.0	1239.3	1236.8	1234.4	1234.4	1239.3	1247.8
27.5°	1203.9	1201.5	1197.9	1194.2	1191.8	1193.0	1194.2	1196.6	1200.3	1201.5	1208.8
30°	1158.9	1157.7	1154.0	1149.2	1150.4	1151.6	1151.6	1151.6	1154.0	1165.0	1167.4
32.5°	1115.1	1113.9	1110.2	1105.3	1106.6	1107.8	1106.6	1107.8	1110.2	1115.1	1126.0
35°	1071.3	1068.8	1065.2	1064.0	1062.7	1062.7	1062.7	1064.0	1065.2	1068.8	1074.9
37.5°	1021.3	1018.9	1016.5	1012.8	1015.3	1017.7	1018.9	1017.7	1018.9	1023.8	1026.2
40°	971.4	970.2	967.8	965.4	966.6	967.8	966.6	970.2	972.7	975.1	976.3
42.5°	924.0	921.5	919.1	917.9	917.9	919.1	919.1	921.5	921.5	927.6	926.4
45°	870.4	869.2	868.0	868.0	869.2	869.2	869.2	870.4	871.6	875.3	876.5
47.5°	818.1	816.8	816.8	816.8	816.8	818.1	819.3	822.9	820.5	821.7	822.9
50°	765.7	764.5	764.5	764.5	766.9	766.9	769.4	770.6	771.8	769.4	770.6
52.5°	712.1	710.9	713.4	713.4	715.8	715.8	719.4	715.8	718.2	717.0	717.0
55°	659.8	658.6	661.0	659.8	662.2	662.2	664.7	665.9	664.7	664.7	664.7
57.5°	606.2	605.0	606.2	607.5	608.7	608.7	612.3	612.3	608.7	611.1	609.9
60°	552.7	551.5	552.7	553.9	555.1	555.1	556.3	553.9	556.3	557.5	556.3
62.5°	499.1	497.9	500.3	499.1	500.3	501.5	501.5	505.2	504.0	504.0	502.8
65°	445.5	444.3	444.3	444.3	445.5	446.8	448.0	449.2	449.2	450.4	449.2
67.5°	390.8	389.5	390.8	389.5	390.8	392.0	394.4	395.6	395.6	396.9	395.6
70°	334.8	336.0	334.8	336.0	337.2	338.4	339.6	342.1	342.1	342.1	342.1
72.5°	280.0	278.8	278.8	277.6	280.0	281.2	282.4	286.1	286.1	287.3	287.3
75°	226.4	224.0	225.2	224.0	228.9	230.1	230.1	233.7	234.9	237.4	236.2
77.5°	174.1	174.1	171.6	175.3	176.5	178.9	181.4	183.8	185.0	188.7	188.7
80°	124.2	124.2	123.0	125.4	130.3	131.5	135.1	136.3	140.0	142.4	143.6
82.5°	79.1	79.1	79.1	82.8	86.4	87.6	91.3	95.0	97.4	101.0	102.3
85°	39.0	41.4	41.4	46.3	48.7	51.1	52.3	57.2	60.9	65.7	69.4
87.5°	12.2	13.4	14.6	17.0	21.9	23.1	25.6	30.4	34.1	39.0	42.6
90°	1.2	1.2	2.4	3.7	6.1	7.3	9.7	12.2	15.8	19.5	21.9
92.5°	8.5	8.5	9.7	9.7	9.7	9.7	9.7	11.0	12.2	14.6	15.8
95°	20.7	32.9	19.5	18.3	20.7	20.7	21.9	20.7	20.7	20.7	20.7
97.5°	34.1	60.9	40.2	28.0	26.8	28.0	28.0	30.4	31.7	32.9	32.9
100°	49.9	76.7	70.6	46.3	37.7	36.5	36.5	36.5	37.7	39.0	40.2
102.5°	65.7	87.6	101.0	71.8	53.6	48.7	46.3	45.0	43.8	45.0	45.0
105°	81.6	98.6	124.2	97.4	76.7	69.4	62.1	53.6	52.3	52.3	52.3
107.5°	96.2	109.6	141.2	126.6	99.8	92.5	84.0	70.6	62.1	60.9	59.6
110°	109.6	120.5	153.4	151.0	125.4	114.4	107.1	92.5	80.3	71.8	68.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	121.7	131.5	161.9	171.6	153.4	140.0	129.0	114.4	101.0	90.1	81.6
115°	133.9	142.4	169.2	188.7	177.7	166.8	154.6	136.3	123.0	112.0	102.3
117.5°	146.1	153.4	176.5	200.9	198.4	191.1	181.4	159.5	143.6	132.7	121.7
120°	157.0	164.3	183.8	209.4	216.7	210.6	204.5	185.0	165.6	153.4	143.6
122.5°	166.8	172.9	191.1	216.7	230.1	228.9	222.8	209.4	189.9	175.3	163.1
125°	176.5	182.6	198.4	221.6	239.8	243.5	241.0	230.1	215.5	198.4	183.8
127.5°	186.3	191.1	205.7	226.4	247.1	254.4	255.6	248.3	237.4	222.8	206.9
130°	194.8	199.6	211.8	230.1	252.0	260.5	265.4	264.2	255.6	245.9	230.1
132.5°	202.1	205.7	217.9	233.7	254.4	264.2	271.5	277.6	271.5	264.2	253.2
135°	209.4	213.0	222.8	237.4	255.6	265.4	275.1	284.9	286.1	280.0	271.5
137.5°	215.5	217.9	227.6	239.8	255.6	265.4	275.1	288.5	295.8	293.4	286.1
140°	221.6	224.0	231.3	243.5	256.9	265.4	273.9	289.7	299.5	303.1	299.5
142.5°	226.4	228.9	234.9	245.9	256.9	264.2	272.7	287.3	300.7	308.0	310.4
145°	231.3	232.5	238.6	247.1	256.9	262.9	270.2	284.9	298.2	309.2	316.5
147.5°	234.9	236.2	239.8	248.3	256.9	261.7	267.8	280.0	293.4	305.6	316.5
150°	238.6	238.6	242.3	248.3	256.9	260.5	265.4	276.3	287.3	299.5	309.2
152.5°	241.0	241.0	244.7	249.6	255.6	259.3	264.2	272.7	282.4	293.4	303.1
155°	243.5	243.5	245.9	249.6	255.6	258.1	261.7	269.0	277.6	286.1	294.6
157.5°	245.9	245.9	247.1	250.8	254.4	256.9	260.5	266.6	272.7	280.0	287.3
160°	247.1	247.1	248.3	250.8	253.2	255.6	258.1	262.9	269.0	273.9	280.0
162.5°	248.3	248.3	249.6	250.8	253.2	254.4	255.6	260.5	264.2	269.0	273.9
165°	249.6	249.6	249.6	250.8	252.0	253.2	254.4	256.9	260.5	264.2	267.8
167.5°	250.8	250.8	250.8	250.8	252.0	252.0	253.2	254.4	256.9	259.3	261.7
170°	252.0	250.8	250.8	252.0	250.8	250.8	252.0	253.2	253.2	255.6	256.9
172.5°	252.0	252.0	250.8	250.8	250.8	250.8	250.8	250.8	250.8	252.0	253.2
175°	252.0	252.0	250.8	250.8	250.8	249.6	249.6	249.6	249.6	249.6	249.6
177.5°	252.0	252.0	250.8	250.8	249.6	249.6	249.6	249.6	249.6	249.6	249.6
180°	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9
2.5°	1448.6	1442.5	1440.1	1438.9	1437.7	1436.5	1434.0	1431.6	1429.2	1429.2
5°	1442.5	1436.5	1434.0	1432.8	1431.6	1430.4	1429.2	1429.2	1429.2	1429.2
7.5°	1432.8	1426.7	1424.3	1423.1	1423.1	1421.9	1421.9	1421.9	1420.6	1421.9
10°	1418.2	1412.1	1410.9	1409.7	1408.5	1406.0	1406.0	1406.0	1404.8	1406.0
12.5°	1399.9	1393.9	1392.6	1391.4	1390.2	1389.0	1389.0	1387.8	1387.8	1389.0
15°	1381.7	1373.2	1370.7	1370.7	1369.5	1368.3	1369.5	1368.3	1368.3	1368.3
17.5°	1354.9	1351.2	1347.6	1345.2	1343.9	1342.7	1342.7	1341.5	1341.5	1341.5
20°	1319.6	1319.6	1319.6	1313.5	1312.3	1311.1	1311.1	1311.1	1311.1	1311.1
22.5°	1285.5	1279.4	1284.3	1280.6	1278.2	1275.8	1277.0	1277.0	1277.0	1277.0
25°	1247.8	1242.9	1244.1	1245.3	1242.9	1239.3	1239.3	1239.3	1239.3	1238.0
27.5°	1207.6	1203.9	1202.7	1203.9	1206.4	1203.9	1200.3	1196.6	1197.9	1197.9
30°	1163.8	1162.6	1161.3	1158.9	1161.3	1162.6	1156.5	1155.3	1155.3	1155.3
32.5°	1120.0	1118.7	1115.1	1112.6	1113.9	1116.3	1113.9	1111.4	1111.4	1111.4
35°	1076.1	1071.3	1067.6	1066.4	1066.4	1068.8	1067.6	1064.0	1064.0	1064.0
37.5°	1025.0	1026.2	1020.1	1018.9	1018.9	1018.9	1021.3	1015.3	1016.5	1015.3
40°	975.1	976.3	972.7	969.0	970.2	967.8	971.4	965.4	965.4	965.4
42.5°	925.2	922.7	924.0	916.7	917.9	917.9	919.1	915.4	914.2	913.0
45°	874.1	871.6	870.4	866.7	866.7	865.5	865.5	860.7	860.7	860.7
47.5°	820.5	819.3	816.8	814.4	814.4	813.2	810.7	809.5	808.3	808.3
50°	769.4	765.7	762.1	763.3	762.1	760.8	758.4	757.2	756.0	754.8
52.5°	714.6	714.6	709.7	709.7	709.7	708.5	706.1	703.6	703.6	702.4
55°	661.0	659.8	656.1	654.9	656.1	654.9	652.5	650.1	650.1	648.8
57.5°	607.5	605.0	603.8	603.8	602.6	602.6	598.9	596.5	597.7	596.5
60°	552.7	552.7	551.5	550.2	550.2	549.0	545.4	545.4	545.4	544.2
62.5°	500.3	500.3	497.9	496.7	497.9	496.7	495.5	494.2	493.0	491.8
65°	445.5	446.8	444.3	445.5	445.5	443.1	443.1	441.9	441.9	440.7
67.5°	394.4	394.4	393.2	393.2	394.4	393.2	393.2	392.0	392.0	390.8
70°	342.1	344.5	343.3	343.3	343.3	342.1	342.1	342.1	340.9	342.1
72.5°	289.7	289.7	289.7	289.7	289.7	290.9	290.9	290.9	290.9	289.7
75°	241.0	242.3	241.0	242.3	243.5	243.5	243.5	243.5	244.7	243.5
77.5°	193.6	194.8	194.8	197.2	197.2	197.2	198.4	198.4	198.4	198.4
80°	148.5	149.7	151.0	153.4	153.4	155.8	157.0	157.0	157.0	157.0
82.5°	107.1	110.8	112.0	115.6	116.9	116.9	119.3	120.5	120.5	120.5
85°	74.3	77.9	80.3	82.8	85.2	85.2	87.6	87.6	88.9	88.9
87.5°	46.3	49.9	52.3	56.0	57.2	58.4	59.6	60.9	62.1	62.1
90°	25.6	28.0	30.4	32.9	32.9	34.1	35.3	36.5	37.7	37.7
92.5°	18.3	19.5	21.9	23.1	23.1	24.3	25.6	25.6	26.8	26.8
95°	20.7	21.9	21.9	23.1	23.1	23.1	24.3	24.3	24.3	24.3
97.5°	31.7	31.7	31.7	30.4	30.4	30.4	30.4	30.4	30.4	30.4
100°	41.4	42.6	42.6	42.6	43.8	43.8	43.8	43.8	42.6	42.6
102.5°	46.3	47.5	48.7	49.9	49.9	49.9	51.1	51.1	51.1	51.1
105°	52.3	52.3	53.6	54.8	54.8	54.8	56.0	56.0	56.0	56.0
107.5°	59.6	59.6	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
110°	68.2	68.2	68.2	67.0	68.2	67.0	67.0	67.0	67.0	67.0



TEST NUMBER: P393848

CATALOG NUMBER: I3-WL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	77.9	76.7	76.7	75.5	75.5	75.5	74.3	74.3	74.3	74.3
115°	93.7	87.6	85.2	82.8	82.8	82.8	81.6	81.6	81.6	81.6
117.5°	113.2	104.7	99.8	95.0	93.7	92.5	90.1	90.1	88.9	88.9
120°	133.9	125.4	118.1	112.0	109.6	108.3	104.7	102.3	99.8	99.8
122.5°	153.4	144.9	137.6	131.5	129.0	126.6	123.0	120.5	118.1	118.1
125°	172.9	164.3	157.0	151.0	147.3	144.9	141.2	138.8	136.3	136.3
127.5°	193.6	182.6	175.3	169.2	165.6	164.3	159.5	157.0	154.6	154.6
130°	216.7	203.3	193.6	186.3	183.8	181.4	177.7	175.3	172.9	172.9
132.5°	239.8	226.4	215.5	205.7	202.1	199.6	194.8	192.3	189.9	189.9
135°	261.7	249.6	238.6	228.9	225.2	221.6	216.7	211.8	209.4	209.4
137.5°	278.8	270.2	260.5	252.0	248.3	244.7	239.8	234.9	231.3	232.5
140°	293.4	286.1	280.0	273.9	270.2	267.8	262.9	259.3	255.6	255.6
142.5°	306.8	300.7	294.6	289.7	288.5	287.3	283.6	280.0	277.6	277.6
145°	318.9	315.3	310.4	304.3	303.1	301.9	298.2	295.8	294.6	294.6
147.5°	322.6	323.8	322.6	318.9	317.7	316.5	314.1	311.6	310.4	310.4
150°	320.2	325.0	327.5	327.5	327.5	327.5	327.5	325.0	323.8	323.8
152.5°	312.9	320.2	325.0	328.7	329.9	331.1	331.1	332.3	331.1	331.1
155°	304.3	311.6	318.9	322.6	325.0	326.2	328.7	329.9	331.1	329.9
157.5°	294.6	300.7	305.6	312.9	315.3	317.7	320.2	322.6	323.8	322.6
160°	286.1	290.9	294.6	299.5	300.7	303.1	305.6	306.8	309.2	308.0
162.5°	277.6	281.2	284.9	287.3	289.7	290.9	293.4	294.6	295.8	294.6
165°	271.5	273.9	275.1	277.6	278.8	280.0	281.2	282.4	282.4	282.4
167.5°	264.2	266.6	267.8	269.0	270.2	271.5	271.5	272.7	272.7	272.7
170°	258.1	259.3	260.5	261.7	261.7	262.9	262.9	262.9	264.2	262.9
172.5°	253.2	253.2	253.2	254.4	254.4	254.4	254.4	254.4	254.4	253.2
175°	250.8	250.8	249.6	249.6	249.6	249.6	249.6	248.3	247.1	245.9
177.5°	249.6	248.3	248.3	247.1	247.1	247.1	245.9	244.7	243.5	242.3
180°	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3

(END OF REPORT)